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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/733,748	12/11/2003	Brad Bivens	1505800-050745	8409		
23570	7590 05/02/2006		EXAM	EXAMINER		
	VRIGHT MORRIS & A TUAL PROPERTY GROU	FASTOVSKY, LEONID M				
	HIGH STREET	51	ART UNIT	PAPER NUMBER		
28TH FLOO			3742 DATE MAILED: 05/02/2006			
COLUMBU	S, OH 43215					

Please find below and/or attached an Office communication concerning this application or proceeding.

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	A	pplication No.	Applicant(s)			
Office Action Summary		0/733,748	BIVENS ET AL.			
		xaminer	Art Unit			
		eonid M. Fastovsky	3742	_		
The MAILING DATE of this comn Period for Reply	nunication appear	s on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provise after SIX (6) MONTHS from the mailing date of this of the No period for reply is specified above, the maximute Failure to reply within the set or extended period for Any reply received by the Office later than three mone earned patent term adjustment. See 37 CFR 1.704(to the North Received States of the N	E MAILING DATE stons of 37 CFR 1.136(a) communication. m statutory period will apreply will, by statute, cau ths after the mailing date	E OF THIS COMMUNICATION In no event, however, may a reply be time pply and will expire SIX (6) MONTHS from a lise the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) Responsive to communication(s)	filed on 08 Febru	uary 2006.				
2a)⊠ This action is FINAL .	This action is FINAL . 2b) This action is non-final.					
3)☐ Since this application is in condition	on for allowance	except for formal matters, pro	secution as to the merits is			
closed in accordance with the pra	actice under Ex p	arte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.			
Disposition of Claims						
4)⊠ Claim(s) <u>1-5 and 8-20</u> is/are pend	ding in the applica	ation.				
4a) Of the above claim(s) i	s/are withdrawn f	from consideration.				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,8-13 and 15-20</u> is/ar	e rejected.					
7) Claim(s) <u>14</u> is/are objected to.						
8) Claim(s) are subject to res	triction and/or ele	ection requirement.				
Application Papers						
9)☐ The specification is objected to by	the Examiner.					
10)⊠ The drawing(s) filed on <u>11 Decem</u>	<i>ber 2003</i> is/are:	a)⊠ accepted or b)□ objecte	ed to by the Examiner.			
Applicant may not request that any o	bjection to the drav	wing(s) be held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) include	ling the correction	is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d)).		
11) The oath or declaration is objected	d to by the Exam	iner. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a cla a) All b) Some * c) None of		ority under 35 U.S.C. § 119(a)	-(d) or (f).			
 Certified copies of the prior 	ity documents ha	ave been received.				
2. Certified copies of the prior	ity documents ha	ave been received in Application	on No			
Copies of the certified copi	es of the priority	documents have been receive	d in this National Stage			
application from the Interna		`				
* See the attached detailed Office ad	tion for a list of the	he certified copies not received	d. ,			
Attachment(s)						
1) Notice of References Cited (PTO-892)		4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review Information Disclosure Statement(s) (PTO-1449 		Paper No(s)/Mail Da 5) Notice of Informal Pa	ite atent Application (PTO-152)			
Paper No(s)/Mail Date		6) Other:	··· +F			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5, 8-10 and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wengler in view of Higgins.

Wengler discloses a heater assembly (Fig. 1-3) comprising a first and second flexible layers 24 and 33 of the diaphragm 10, at least one flexible electric heating element 40 positioned between the first and second layers and forming first, second and third heating zones 44, 45 and 46, and wherein the flexible heating element 40 provides non-uniform heating as desired (col. 3, lines 47-63) and comprises bundled resistive wires knitted into a desired form (Fig. 3).

As for claims 4-5 and 8-9, Wengler discloses the first, second and third heating zones that are concentric circles and have different watt density and the flexible heating elements comprises three heating elements.

However, Wengler does not disclose the electric heating elements connected in series and a fourth heating zone.

Higgins discloses a flexible heating element comprises two heating elements 16 and 18 electrically connected in series, have concentric heating zones, and the heating element 18 inherently has a higher watt density than the element 16, and a third heating element

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20 with a third heating zone and a fourth heating element 22 with a fourth heating zone (Fig. 1-2). It would have been obvious to one having ordinary skill in the art to modify Wengler's invention to include the electric heating elements connected in series and the fourth heating zone as taught by Huggins in order to generate variety of non-uniform heating zones as required by the user.

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3. Claims 11 – 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wengler in view of Higgins and further in view of Lowery et al (3,875,373).

Wengler in view of Higgins discloses substantially the claimed invention, but does not disclose a silicon rubber and a thermal insulating layer. Lowery discloses a vacuum heated pad 10 comprising a first flexible layer - resilient body 13 made of silicone (col. 2, lines 59-69), a second flexible layer 16, a heating element 15 positioned between the first and second layers and an inherently thermal insulator layer 9, the layer 9 positioned adjacent to the second layer 33 and comprising woven fiberglass (col. 3, lines 1-12). It would have been obvious to one having ordinary skill in the art to modify the invention of Wengler in view of Higgins to use a thermal insulation layer to more efficiently use the heater assembly and silicon for the second layer and the thermal layer as taught by Lowery as one of the commonly used materials in the art in order to inhance durability of the heater.

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Allowable Subject Matter

4. Claim 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Response to Arguments

6. Applicant's arguments with respect to claims 1-5, 8-13, 15 and 17-20 have been considered but are not persuasive. It would have been obvious to one having ordinary

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skill in the art to modify the invention of Wengler in view of Higgins to use a thermal insulation layer to more efficiently use the heater assembly and silicon for the second layer and the thermal layer as taught by Lowery as one of the commonly used materials in the art in order to enhance durability of the heater.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leonid M Fastovsky whose telephone number is 571-272-4778. The examiner can normally be reached on M-Th. 8.00 am -6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leonid M Fastovsky

Examiner Art Unit 3742

lmf

SUPERVISORY PATENT EXAMINER

4/22/06